

Amendments to the Claims

The following listing of claims will replace all prior versions, and listing of claims in the application.

Listing of Claims

Claim 1 (currently amended): A computer peripheral input system with two input types, comprising:

a first input module serving for inputting at least a first input data and generating a first input signal corresponding thereto;

a second input module serving for inputting at least a second input data and generating a second input signal corresponding thereto; and

control means having a communication interface installed therein, said control means serving for reading and processing said first input signal and said second input signal, and then storing a first and a second information respectively corresponding thereto, , wherein said first information represents said first input data and said second information represents said second input data; ~~and~~ said and said communication interface serving for sending said first information and said second information stored in said control means to a computer host by a polling method.

Claim 2 (original): The computer peripheral input system of claim 1, wherein said first input module comprises a keyboard.

Claim 3 (original): The computer peripheral input system of claim 1, wherein said second input module comprises a digitizer tablet system.

Claim 4 (original): The computer peripheral input system of claim 3,

wherein said digitizer system comprises a digitizer tablet and a plurality of pointing devices.

Claim 5 (original): The computer peripheral input system of claim 4, wherein said pointing devices comprise a cordless pen, a cordless mouse and a puck.

Claim 6 (original): The computer peripheral input system of claim 3, further comprising a signal processing unit for transforming said second input signal to a first digital signal and a second digitizer signal, wherein said first digital signal is processed to a pressure data/ or a button status data corresponding to said second input data, and said second input data, by said control means.

Claim 7 (original): The computer peripheral input system of claim 6, wherein said signal processing unit comprises amplifier and filter circuits for amplifying said second input signal and eliminating noises.

Claim 8 (original): The computer peripheral input system of claim 6, wherein said signal processing unit comprises pressure signal waveform generation circuits for generating said first digital signal.

Claim 9 (original): The computer peripheral input system of claim 8, further comprising a computer for determining a frequency of said first digital signal.

Claim 10 (original): The computer peripheral input system of claim 8, wherein said pressure signal waveform generation circuits comprises computer circuit.

Claim 11 (original): The computer peripheral input system of claim 10, wherein said first digital signal is a clock.

Claim 12 (original): The computer peripheral input system of claim 6, wherein said signal processing unit comprises position signal waveform generation circuits and an analog to digital convert for generating said second digital signal.

Claim 13 (original): The computer peripheral input system of claim 12, wherein said position signal waveform generation circuits comprises a rectifier circuit and a peak detector circuit.

Claim 14 (original): The computer peripheral input system of claim 1, wherein said control means comprises a micro-controller.

Claim 15 (original): The computer peripheral input system of claim 1, wherein said communication interface comprises a universal serial bus interface (USB interface).

Claim 16 (original): The computer peripheral input system of claim 15, wherein said universal serial bus interface has an endpoint 0 and an endpoint 1.

Claim 17 (original): The computer peripheral input system of claim 2, further comprising a keyboard light emitting diode indicator.

Claim 18 (original): The computer peripheral input system of claim 4, further comprising a tablet light emitting diode indicator.

Claim 19 (currently amended): A computer peripheral input system with two input types, comprising:

a keyboard device serving for inputting at least a first input data and generating a first input signal corresponding thereto, said first input data representing an actuated key data;

a digitizer tablet device serving for inputting at least a second input data and generating a second input signal corresponding thereto;

a signal processing unit for transforming said second input signal to a first digital signal and a second digital signal, wherein said first digital signal corresponds to a pressure data/or a button status data of said second input data, and said second digital signal corresponds to a coordinate data of said second input data; and

control means having a communication interface installed therein, said control means serving for reading and processing said first input signal and both of said first digital signal and said second digital signal corresponding to said second input signal, wherein said first input signal is processed to said actuated key data, said first digital signal is processed to said pressure data / or said button status data, said second digital signal is processed to said coordinate data, and said actuated key data, said pressure data / or said button status data and said coordinate data are stored in said control means; and said and said communication interface serving for sending said actuated key data, said pressure data / or said button status data and said coordinate data stored in said control means to a computer host by a polling method.

Claim 20 (original): The computer peripheral input system of claim 19, wherein said digitizer tablet device comprises a digitizer tablet and a plurality of pointing devices.

Claim 21 (original): The computer peripheral input system of claim 20, wherein said pointing devices comprise a cordless pen, a cordless and a puck.

Claim 22 (original): The computer peripheral input system of claim 19, wherein said signal processes unit comprises pressure signal waveform generation circuits, position signal waveform generation circuits and an analog to digital convert circuit, wherein said pressure signal waveform generation circuits are served for transforming said second input signal to a first digital signal, and said position signal waveform generation circuits and said analog to digital circuit are served for transforming said second input signal to said second digital signal.

Claim 23 (original): The computer peripheral input system of claim 22, wherein said pressure signal waveform generation circuits comprises a comparator circuit.

Claim 24 (original): The computer peripheral input system of claim 23, wherein said first digital signal is a clock.

Claim 25 (original): The computer peripheral input system of claim 22, wherein said signal processing unit further comprising a frequency counter for counting frequency of said first digital signal.

Claim 26 (original): The computer peripheral input system of claim 22, wherein position signal waveform generation circuits comprises a rectifier circuit and a peak detector circuit.

Claim 27 (original): The computer peripheral input system of claim

19, wherein said control means comprises a micro-controller.

Claim 28 (original): The computer peripheral input system of claim 19, wherein said communication interface comprises a universal serial bus interface (USB interface).

Claim 29 (original): The computer peripheral input system of claim 28, wherein said universal serial bus interface has an endpoint 0 and an endpoint 1.

Claim 30 (original): A data communication method of a computer peripheral input system with two input types, said computer peripheral input system comprising a keyboard device, a digitizer tablet device including a plurality of pointing device and control means having a communication interface installed therein, said control means reading and processing input data of said keyboard device and said digitizer tablet device and storing them, the processed input data being sent to a computer host through said communication interface, said data communication method comprising:

proceeding handshaking action between said communication interface and said control means such that said communication interface detects respective identifier (ID) of said keyboard device and each of said pointing devices setting in said control means, and said communication interface providing a respective output address for each said respective identifier;

clearing and planning a data memory of said control means to provides a predetermined memory region in said data memory for storing input data corresponding to each said respective identifier (ID);

setting input data of said keyboard device as a first priority sent data of said communication/interface;

reading input data of said keyboard device and storing the input data in

said corresponding predetermined memory region;

reading input data of said digitizer tablet device in sequence according to the order of said respective identifiers (ID) of said pointing devices and storing the input data in said predetermined memory regions corresponding to said respective identifiers of said pointing devices; and

polling input data stored in said control means by said communication interface; when there is input data of said keyboard device stored in said control means, said communication interface sends the input data through said output address corresponding to said respective identifier (ID) of said keyboard device, and returning to the step of reading input data of said keyboard device; when there is not input data of said keyboard device stored in said control means, said communication interface polls input data of said digitizer tablet device, when there is input data of said digitizer tablet device stored in said control means, said communication interface sends the input data of said digitizer tablet through said output addresses corresponding said respective identifiers (ID) of said pointing device to the computer host according to the order of said respective identifiers of said pointing devices, and returning to the step of reading input data of said keyboard device, when there is not input data of said digitizer tablet device stored in said control means, returning to the step of reading input data of said keyboard device.

Claim 31 (original): The data communication method of claim 30, wherein said pointing devices comprises a cordless pen, a cordless mouse and a puck.

Claim 32 (original): The data communication method of claim 30, wherein said control means comprises a micro-controller.

Claim 33 (original): The data communication method of claim 30,

wherein said communication interface comprises a universal serial bus interface (USB interface).

Claim 34 (original): The data communication method of claim 33, wherein said universal serial bus interface (USB interface) has an endpoint 0 and an endpoint 1.
